

## **ABSTRACT OF THE DISCLOSURE**

An active implantable medical device, such as a double chamber pacemaker or defibrillator or cardioverter, having an improved adjustment of atrial sensitivity and of atrial stimulation energy. This device includes control algorithms for suspecting a loss of atrial detection and/or atrial capture that operates by analysis of a sequence of detected stimulations and ventricular and atrial detections. The following conditions are detected: an absence of ventricular activity post-atrial stimulation; and/or a lengthening, beyond a given limit, of the atrio-ventricular conduction delay over a predetermined number of successive cardiac cycles; and/or an occurrence of an atrial detection consecutive to an atrial stimulation over a predetermined number of successive cardiac cycles; and/or a ventricular extrasystole; and/or reduction, below a given limit, of a delay between atrial stimulation and ventricular detection; and/or the passage of an atrial detection to an atrial stimulation with concomitant reduction, below a given limit, of the delay between atrial event and ventricular detection. The atrial detection threshold and/or the atrial stimulation energy are adjusted, preferably stepwise, according to the detected conditions to provide improved patient care.